## AMENDMENT TO THE CLAIMS

- (currently amended): A head suspension assembly comprising:
  a suspension portion including a suspension arm;
  - a head <del>portion</del> coupled to the suspension arm including a slider body having a leading edge, trailing edge and opposed sides and one or more transducer elements; and
  - a magnetic bearing element on the <u>slider bodyhead</u> or suspension portion to form a magnetic bearing assembly operable to induce a repulsion force to provide a flyheight for the head portion of the head suspension assembly.
- 2. (original): The head suspension assembly of claim 1 wherein the magnetic bearing element includes at least one bearing magnet.
- 3. (original): The head suspension assembly of claim 2 wherein the at least one bearing magnet includes a permanent magnet.
- 4. (original): The head suspension assembly of claim 2 wherein the at least one bearing magnet includes an electro-magnet.
- 5. (original): The head suspension assembly of claim 1 wherein the magnetic bearing element includes bearing magnets on opposed sides of either a roll axis, a pitch axis or both, of the slider body.
- 6. (original): The head suspension of claim 1 wherein the magnetic bearing element includes a bearing magnet proximate to a trailing edge of the slider body spaced from a pitch axis of the slider body.
- 7. (cancelled)

- 8. (currently amended): The head suspension assembly of claim 1 wherein the <u>one or more</u> transducer elements includes a longitudinal recording element.
- 9. (currently amended): The head suspension assembly of claim 1 wherein the magnetic bearing element includes a conductive element on the slider bodyhead or suspension portion.
- - a head suspension assembly including a suspension portion including a suspension arm and a head portion including a slider body having a leading edge, trailing edge and opposed sides and a transducer portion including a transducer element;
  - a data storage disc having a recording layer and a magnetic bearing element; and
  - a magnetic bearing element on the slider body or suspension portion and a magnetic bearing element on the data storage disc and the magnetic bearing elements on the date storage disc and the slider or suspension portion including a bearing magnet and a conductive element to provide a repulsion force between the head suspension assemblyslider or suspension portion and the data storage disc to provide a fly height for the head portion of the head suspension above a disc surface.
- 11. (original): The bearing assembly of claim 10 wherein the bearing magnet is a permanent magnet.
- 12. (original): The bearing assembly of claim 10 wherein the bearing magnet is an electro-magnet.

- 13. (currently amended): The bearing assembly of claim 10 wherein the bearing magnet is formed on the slider body—or suspension portion and the disc includes a conductive layer or substrate to form the conductive element.
- 14. (currently amended): The bearing assembly of claim 10 wherein the conductive element is formed on the slider body or the suspension portion and the bearing magnet is formed of a magnetic recording layer on the data storage disc.
- 15. (currently amended): The bearing assembly of claim 10 wherein the slider includes a transducer element includes having a longitudinal recording element.
- 16. (original): The bearing assembly of claim 12 including a controller coupled to the electro-magnet to selectively energize the magnetic bearing assembly.
- 17. (currently amended): The bearing assembly of claim 10 wherein the data storage disc includes a magnetic recording layer and recording layer the bearing element on the data storage disc is athe magnetic recording layer.

## Claims 18-24 - Cancelled

- 25. (new) The head suspension assembly of claim 1 wherein the magnetic bearing element is on the head.
- 26. (new) The bearing assembly of claim 10 wherein the magnetic bearing element is on the slider.

- 27. (new) The bearing assembly of claim 10 wherein the magnetic bearing element on the slider or suspension portion includes an inductive coil and further comprising a detector coupled to the inductive coil to measure a voltage or current.
- 28. (new) The bearing assembly of claim 27 wherein the slider includes a perpendicular recording element and the magnetic bearing element of the data storage disc is a magnetic recording layer.
- 29. (new) The bearing assembly of claim 27 wherein the magnetic bearing element on the data storage disc is a conductive layer.
- 30. (new) The bearing assembly of claim 10 wherein the magnetic bearing element on the slider or suspension portion includes an electro-magnet and further comprising a controller configured to energize the electro-magnet prior to rotation of the data storage disc.
- 31. (new) A magnetic bearing element on a slider orientated to provide a repulsion force relative to a conductive layer of a data storage disc via rotation of the slider relative to the data storage disc.

## 32. (new) An assembly comprising:

- an electro-magnetic element on a slider or head suspension; and
- a detector coupled to the electro-magnetic element on the slider or head suspension configured to measure voltage or current to detect vibration or fly height.